Application No. 10/560,033

AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

(Currently Amended): A multi-layered heat-shrinkable film composed of at least three

layers comprising PET bottle onto which a multi-layered heat-shrinkable film of at least three

layers is heat-shrunk, wherein said multi-layered heat-shrinkable film is subjected to perforation

processing and wherein said multi-layered heat-shrinkable film comprises:

front-back film layers each composed of a resin composition comprising cyclic olefin-

based resin of from 55 to 95 mass % and linear low-density polyethylene of from 45 to 5

mass %; and

an intermediate film layer composed of a resin composition comprising propylene-α-

olefin random copolymer of from 95 to 55 mass % and cyclic olefin-based resin of from 5 to 45

mass %, or composed of a resin composition comprising: a resin composition of from 95 to 55

mass % mainly composed of the propylene-α-olefin random copolymer; and the cyclic olefin-

based resin of from 5 to 45 mass %,

wherein the propylene- α -olefin random copolymer that constitutes the intermediate film

layer includes a petroleum resin in an amount of 5 to 70 parts by mass per 100 parts by mass of

the propylene-α-olefin random copolymer in order to increase the heat shrinkage in the lateral

direction: and

-2-

Application No. 10/560,033

when immersed in hot water of 90°C for 10 seconds, the multi-layered heat-shrinkable

film has a heat shrinkage in a lateral direction of 50 % or higher, and has a tear propagation

strength in a longitudinal direction of from 800 to 350mN,

wherein the stretching ratio of the multi-layered heat-shrinkable film is from 4.5 to 5.5

times, and

the multi-layered heat-shrinkable film has a haze value (measured in accordance with JIS

K 7105) of from 2.5 to 2.89% or below.

2. (Cancelled)

3. (Original): The multi-layered heat-shrinkable film according to claim 1, wherein the

resin composition mainly composed of the propylene-α-olefin random copolymer comprises the

propylene- α -olefin random copolymer, the petroleum resin, and low-crystalline ethylene- α -olefin

copolymer and/or low-crystalline propylene-α-olefin copolymer.

4. (Original): The multi-layered heat-shrinkable film according to claim 1, wherein the

linear low-density polyethylene is metallocene catalyst-based linear low-density polyethylene.

5. (Original): The multi-layered heat-shrinkable film according to claim 1, wherein wet

tension of at least one surface of the film is in a range of from 38 to 48 mN/m.

- 3 -

Application No. 10/560,033

6. (Original): A container comprising:

a container body; and

a label comprising a multi-layered heat-shrinkable film according to claim 1, the label

being heat-shrunk onto the container body.

7. (Currently Amended): A multi-layered heat-shrinkable film composed of at least three

layers comprising PET bottle onto which a multi-layered heat-shrinkable film of at least three

layers is heat-shrunk, wherein said multi-layered heat-shrinkable film is subjected to perforation

processing and wherein said multi-layered heat-shrinkable film comprises:

front-back film layers each composed of a resin composition (1); and

an intermediate film layer composed of a resin composition (2), wherein:

an overcoat layer is provided on a principal surface of a front film layer of the multi-

layered heat-shrinkable film, the principal surface being opposite a surface facing the

intermediate film laver;

the resin composition (1) comprises cyclic olefin-based resin of from 55 to 95 mass %

and linear low-density polyethylene of from 45 to 5 mass %; and

the resin composition (2) comprises propylene-α-olefin random copolymer of from 95 to

55 mass % and cyclic olefin-based resin of from 5 to 45 mass %, or comprises: a resin

composition of from 95 to 55 mass % mainly composed of the propylene- α -olefin random

copolymer; and the cyclic olefin-based resin of from 5 to 45 mass %,

wherein the propylene-α-olefin random copolymer that constitutes the intermediate film

- 4 -

Application No. 10/560,033

layer includes a petroleum resin in an amount of 5 to 70 parts by mass per 100 parts by mass of

the propylene-\alpha-olefin random copolymer in order to increase the heat shrinkage in the lateral

direction;

wherein the stretching ratio of the multi-layered heat-shrinkable film is from 4.5 to 5.5

times, and

the multi-layered heat-shrinkable film has a haze value (measured in accordance with JIS

K 7105) of from 2.5 to 2.89% or below.

8. (Original): The multi-layered heat-shrinkable film according to claim 7, wherein an

innercoat layer is provided on a principal surface of a back film layer of the multi-layered heat-

shrinkable film, the principal surface being opposite a surface facing the intermediate film layer.

9. (Original): The multi-layered heat-shrinkable film according to claim 7, wherein the

linear low-density polyethylene is metallocene catalyst-based linear low-density polyethylene.

10. (Original): A container comprising:

a container body; and

a label comprising a multi-layered heat-shrinkable film according to claim 7, the label

being heat-shrunk onto the container body.

- 5 -

Application No. 10/560,033

11. (Currently Amended): A heat shrinkable label which is mounted on the side surface

of a container PET bottle and which comprises a base film having an edge and another edge, the

edge and the another edge being overlapped so as to form a tube, and the edge and the another

edge being attached in the overlap part, wherein said heat-shrinkable film is subjected to

perforation processing and

wherein:

the base film comprises:

(A) front-back film layers each composed of a resin composition comprising of cyclic

olefin-based resin of 55 to 95 mass % and linear low-density polyethylene of 45 to 5 mass %;

and

(B) an intermediate film layer composed of a resin composition comprising propylene-α-

olefin random copolymer of from 95 to 55 mass % and cyclic olefin-based resin of from 5 to 45

mass %, or composed of a resin composition comprising: a resin composition of from 95 to 55

mass % mainly composed of the propylene-α-olefin random copolymer; and the cyclic olefin-

based resin of from 5 to 45 mass %.

wherein the propylene-α-olefin random copolymer that constitutes the intermediate film

layer includes a petroleum resin in an amount of 5 to 70 parts by mass per 100 parts by mass of

the propylene-α-olefin random copolymer in order to increase the heat shrinkage in the lateral

direction; and

- 6 -

Application No. 10/560,033

when immersed in hot water of 90°C for 10 seconds, the multi-layered heat-shrinkable

film has a heat shrinkage in a lateral direction of 50 % or higher, and has a tear propagation

strength in a longitudinal direction of from 800 to 350mN:

wherein the stretching ratio of the heat shrinkable label is from 4.5 to 5.5 times, and

the heat-shrinkable film has a haze value (measured in accordance with JIS K 7105) of

from 2.5 to 2.89% or below.

12. (Currently Amended): A heat shrinkable label which is mounted on the side surface

of a PET bottle container and which comprises a base film having an edge and another edge, the

edge and the another edge being overlapped so as to form a tube, and the edge and the another

edge being attached in the overlap part, wherein said heat-shrinkable film is subjected to

perforation processing and

wherein:

the base film comprises:

(A) front-back film layers each composed of a resin composition comprising cyclic

olefin-based resin of 55 to 95 mass % and linear low-density polyethylene of 45 to 5 mass %;

(B) an intermediate film layer composed of a resin composition comprising propylene- α -

olefin random copolymer of from 95 to 55 mass % and cyclic olefin-based resin of from 5 to 45

mass %, or composed of a resin composition comprising: a resin composition of from 95 to 55

mass % mainly composed of the propylene-α-olefin random copolymer; and the cyclic olefin-

based resin of from 5 to 45 mass %; and

- 7 -

Application No. 10/560,033

(C) an overcoat layer provided on the front film layer,

wherein the propylene-α-olefin random copolymer that constitutes the intermediate film

layer includes a petroleum resin in an amount of 5 to 70 parts by mass per 100 parts by mass of

the propylene-α-olefin random copolymer in order to increase the heat shrinkage in the lateral

direction: and

wherein the stretching ratio of the heat shrinkable label is from 4.5 to 5.5 times, and

the heat-shrinkable film has a haze value (measured in accordance with JIS K 7105) of

from 2.5 to 2.89% or below.

13. (Previously Presented): The multi-layered heat-shrinkable film according to claim 1,

wherein the stretching is obtained under the condition of the stretching time being from 5 to 12

seconds.

14. (Previously Presented): The heat shrinkable label according to claim 11 or 12.

wherein the stretching is obtained under the condition of the stretching time being from 5 to 12

seconds.

-8-